Little Cedar Creek (0744) Use Attainability Analysis



Boone County Regional Sewer District 1314 North 7th Street Columbia, MO 65201-3902

Prepared by
Barr Engineering Company
July 2005

Little Cedar Creek (0744)

Use Attainability Analysis

Boone County Regional Sewer District 1314 North 7th Street Columbia, MO 65201-3902

July 2005



Barr Engineering Company 3236 Emerald Lane Jefferson City, MO 65109 Phone: (573) 636-5331 Fax: (573) 636-5323

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Field Data Sheets for Recreational Use Stream Surveys

JUL 1 3 2005

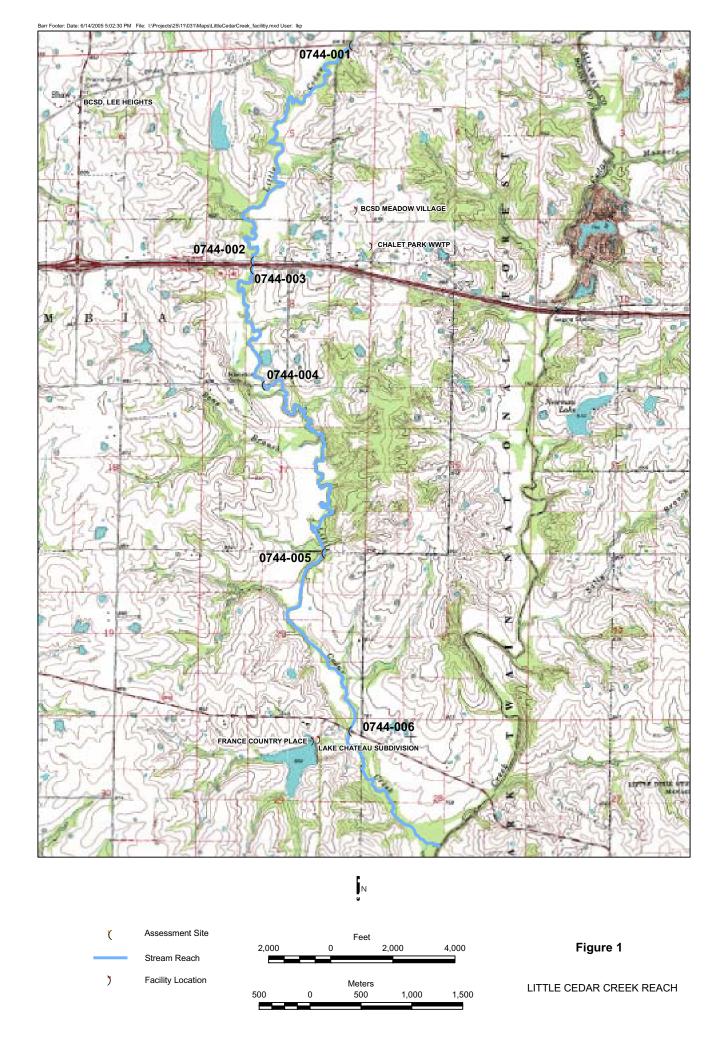
Data Sheet A - Water Body Identification

WATER PROTECTION FACSRAM

Water Body Name (from USGS 7.5' quad): Little Cedar Creek
8-digit HUC: 10300102
Missouri WBID #: 0744
County: Boone
Upstream Legal Description: North Line Section 5, Township 48 North, Range 11 West
Downstream Legal Description: Mouth (in North 1/2 Section 20, T48N, R11W)
Upstream Coordinates: UTM (Z15N) 571658E; 4314632N
Downstream Coordinates: UTM (Z15N) 571052E; 4308909N
Discharger Facility Name(s): Boone County Regional Sewer District, Meadow Village, Permit # MO0098442 Boone County Regional Sewer District, Lee Heights, Permit # MO0102113 Lake Chateau Subdivision, Permit # MO0108332 France Country Place, Permit # MO0114332
Discharger Permit Number(s): See Above.
Number of Sites Evaluated: 6
Name of Surveyor and Telephone Number: Alan Fandrey (573-638-5013)
Organization: Barr Engineering Company
Position: Civil Engineer

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed:_	Mar	Harel	Date:	Jore	79, 2005
		1		•	•



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 0744-	-001		Site Location De	scription: ek at road crossing North Li	ne Section 5 T48N
Site GPS Coordinates: 57	71658E; 4314632N			- Boone County	ne section 3, 14011,
Date & Time: 5/28/05			Facility Name: S	See Report Table 2	
Personnel: Tim J. Fandre	y / Alan J. Fandrey		Permit Number:	See Report Table 2	
Current Weather Condition	ons: Clear - 70s		Weather Conditi	ons for Past 7 days: Last ra	in with runoff May 22
Photo Ids: Upstream: 07	44-001US Dow	nstream: 074	4-001DS Other	; –	-
Uses Observed*:					
Swimming	Skin diving		JBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	Boa	iting	Wading	Rafting
Hunting	Trapping	Fish	ning	None of the above	Other:
Surrounding Condition tems of interest.)				T	T
City/county parks	☐ Playgrounds	MDC cor	nservation lands	Urban areas	Campgrounds
☐ Boating accesses	State parks	☐ National	forests	☐ Nature trails	Stairs/walkway
☐ No trespass sign	☐ Fence	Steep slop	pes	Other:	
Evidence of Human Use	9 *•				
Roads	Foot paths/prin	ts D	ock/platform	Livestock Watering	RV / ATV Tracks
Rope swings	Camping Sites	Fi	re pit/ring	☐ NPDES Discharge	Fishing Tackle
Other:					

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two – WBID #<u>0744-001</u>:

⊠ Riffle	Width (ft):	3	Length (ft): 1	.0	Avg. Depth ((ft): 0.1	Max, Depth (ft): 0.2	
Run	Width (ft):		Length (ft):		Avg. Depth ((ft):	Max. Depth (ft):	
⊠ Pool	Width (ft):	100	Length (ft): 3	00	Avg. Depth ((ft): 0.3	Max. Depth (ft): 0.5	
⊠ Flow	Present?	⊠ Yes	□No	• 1	Estimated (ft	³ /sec): less tha	an		u.
Downstrea	ım View i	Physical	l Dimensions:						
⊠ Riffle	Width (ft):	1.0	Length (ft): 2	20	Avg. Depth ((ft): 0.1	Max, Depth (ft): 0.2	
Run	Width (ft):		Length (ft):		Avg. Depth ((ft):	Max. Depth (ft):	
⊠ Pool	Width (ft):	5-30	Length (ft): I	.00	Avg. Depth ((ft): 0.5	Max. Depth (ft): 1.0	
⊠ Flow	Present?	∑ Yes	□ No		Estimated (fi	³ /sec): less tha	an		
	Cobble etation*:	10	% Gravel	% Sa or algal gr		% Silt	90% Mud/Ciay		% Bedro
watic Veg A little gras	Cobble etation*:	(note amo	% Gravel				90% Mud/Ciay		% Bedro
watic Veg A little gras	Cobble etation*:	(note amo	% Gravel ount of vegetation o	τ algal gr			90% Mud/Clay		% Bedre
watic Veg A little gras ater Chara Odor: Color:	cobble etation*: s acteristics	10 (note amo	% Gravel ount of vegetation o all that apply.) Musky Green	σ algal gr	owth at the asse	essment site)	☐ Other:		% Bedro
watic Veg A little gras ater Chara Odor:	etation*:	(note amo	% Grave! ount of vegetation o call that apply.)	or algal gr	owth at the asse	essment site)	Other:		% Bedr
Muatic Vega A little grass ater Chara Odor: Color: Bottom Dej Surface De mments: I	etation*: acteristics posit: posit: Please atta on is not to understandi recreation u	(note amo	Gravel all that apply.) Musky Green Solids Scum tional comments blely for removal of er conditions. Cons	ar algal gr	Chemical Gray Tine sediments Foam Ling informat tional use design this informations that need furth	None None None None nation from intended in some intended in intended in analysis or	Other: Other: browner: de Other: de Other: erviews) to this f or is to provide a mo ed to directly influent that effect another u	orm.	
ater Chara Odor: Color: Bottom De Surface De minents: I	etation*: acteristics posit: posit: Please atta on is not to understandirecreation	(note amo	Gravel c all that apply.)	ar algal gr	Chemical Gray Tine sediments Foam ling informat ional use design, this informations that need furth	None None None None nation from intended in some intended in intended in analysis or	Other: Other: browner: de Other: de Other: erviews) to this f er is to provide a mo ed to directly influe; that effect another u	orm.	



Photo ID 0744-001US: Upstream (Little Cedar Creek)



Photo ID 0744-001DS: Downstream (Little Cedar Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 0744	-002		Site Location De	scription: ek at I-70 North Outer Road	Crossing in North 1/
Site GPS Coordinates: 5	70687E; 4312543N			, R11W; BID 202 – Boone	
Date & Time: 5/28/2005	- 1:45 p.m.		Facility Name:		
Personnel: Tim J. Fandre	ey / Alan J. Fandrey		Permit Number:		
Current Weather Conditi	ons: Clear - 70s		Weather Condition	ons for Past 7 days: Last ra	in with runoff May 22
Photo Ids: Upstream: 07	744-002US Dow	nstream: 074	4-002DS Other	: –	
U 01 14	<u> </u>		1		
Uses Observed*:			LID A. J. L.		W-41 ::
Swimming	Skin diving		UBA diving	Tubing	Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boa	ating	Wading	Rafting
Hunting	☐ Trapping	☐ Fisl	hing	None of the above	Other:
Surrounding Condition tems of interest.)	18*: (Mark all that _I	promote or imp	pede recreational us	ses. Attach photos of evider	nce or unusual
City/county parks	Playgrounds	MDC cor	nservation lands	Urban areas	Campgrounds
Boating accesses	State parks	National	forests	Nature trails	
☐ No trespass sign	-	N a. 1		<u> </u>	
		Steep slo	pes	Other: power lines	Stairs/walkway
Ev <u>idence of Human</u> Us		Steep slo	pes	<u> </u>	Stairs/walkway
Evidence of Human Us			pes lock/platform	<u> </u>	Stairs/walkway RV / ATV Tracks
	e*:	nts D		Other: power lines	

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #0744-002:

Jpstream View ☐ Riffle Width		Length (ft):	A Th41- /	A).	Mr. D. J. (6)	
			Avg. Depth (<u> </u>	Max. Depth (ft):	
Run Width		Length (ft):	Avg. Depth (Max. Depth (ft):	
Pool Width	(ft): 12-20	Length (ft): 100			Max. Depth (ft):	1.2
☐ Flow Preset	? Yes	□ No	Estimated (ft 1.0	3/sec): less th	<u>.</u> .	
Downstream Vi		l Dimensions:				
Riffle Width	(ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth (ft):	
Run Width	(ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth (ft):	
Pool Width Width Pool Width Po	(ft): 10	Length (ft): 20	Avg. Depth ((ft): 0.5	Max. Depth (ft):	1.0
☑ Flow Preser	t? Yes	☐ No	Estimated (ft 1.0	3/sec); less th	ian .	
% Cobbl	<u>: </u>		% Sand		100% Mud/Clay	% Ве
	 	ount of vegetation or a	<u> </u>	ssment site)		<i>N</i> 250
uatic Vegetatio None. ter Characteri	1*: (note amo	k all that apply.)	gal growth at the asse			
uatic Vegetatio None. ter Characteri Odor:	tics*: (Mari	k all that apply.) □ Musky	Igal growth at the asse	None None None None None	☐ Other:	-
uatic Vegetatio None. ter Characteri Odor: Color:	tics*: (Marl	k all that apply.)	gal growth at the asse	⊠ None ☐ Milky	☐ Other: ☐ Other: brown	
natic Vegetatio None. ter Characteri Odor: Color: Bottom Deposit:	tics*: (Mark Sewage	k all that apply.) Musky Green Solids	Igal growth at the asse Chemical Gray Fine sediments	NoneMilkyNone	☐ Other: ☑ Other: brown ☑ Other: riprap	
ter Characterico Odor: Color: Bottom Deposit: Surface Deposit: mments: Please	tics*: (Mark Sewage Clear Sludge Oil attach addi	k all that apply.) Musky Green Solids Scum	Chemical Gray Fine sediments Foam	None Milky None None None	Other: Other: brown Other: riprap Other: Other:	
ter Characterico Odor: Color: Bottom Deposit: Surface Deposit: mments: Please	tics*: (Mari Sewage Clear Sludge Oil attach addi	k all that apply.) Musky Green Solids Scum Itional comments (i	Chemical Gray Fine sediments Foam ncluding informativecereational use designmently, this information	None Milky None None nation from intended	☐ Other: ☐ Other: brown ☐ Other: riprap ☐ Other:	1.
ter Characterico Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understation on the recreation of the recreati	tics*: (Mark Sewage Clear Sludge Oil attach addi	k all that apply.) Musky Green Solids Scum Itional comments (i	Chemical Gray Fine sediments Foam neluding informations that need furth	None Milky None None None ion from intended in the second intended intended in the second intended intended in the second intended intended in the second intended intended in the second intended intend	Other: Other: brown Other: riprap Other: derviews) to this form	1.
ter Characterico Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understation on the recreation of the recreati	tics*: (Mark Sewage Clear Sludge Oil attach addi	k all that apply.) Musky Green Solids Scum itional comments (i	Chemical Cray Fine sediments Foam crecreational use designmently, this information ditions that need furth	None Milky None None None ion from intended in the second intended intended in the second intended intended in the second intended intended in the second intended intended in the second intended intend	Other: Other: brown Other: riprap Other: terviews) to this form ter is to provide a more ded to directly influence a that effect another use.	1.



Photo ID 0744-002US: Upstream (Little Cedar Creek)



Photo ID 0744-002DS: Downstream (Little Cedar Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 0744	-003		Site Location De		Consider in North 1/
Site GPS Coordinates: 5'	70699E; 4312474N			ek at South I-70 Outer Road , R11W; BID 203 – Boone	
Date & Time: 5/28/05 - 1	1:50 p.m.		Facility Name: S	See Report Table 2	
Personnel: Tim J. Fandre	ey / Alan J. Fandrey		Permit Number:	See Report Table 2	
Current Weather Condition	ons: Clear 70s		Weather Conditi	ons for Past 7 days: Last ra	in with runoff on May 22
Photo Ids: Upstream: 07	744-003US Dow	nstream: 074	14-003DS Other	: -	
Uses Observed*:					
Swimming	Skin diving		UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	Воа	ating	Wading	Rafting
Hunting	Trapping	Fisl	hing	None of the above	Other:
Surrounding Condition	s*: (Mark all that p	promote or im	pede recreational u	ses. Attach photos of evider	nce or unusual
tems of interest.)				T.	
☐ City/county parks	Playgrounds	MDC con	nservation lands	Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	⊠ Fence	Steep slo	pes	Other: power lines	
Evidence of Human Use	e *:				
Roads	Foot paths/prin	nts D	ock/platform		
Rope swings			оск/ріанопп	Livestock Watering	RV / ATV Tracks
☐ Rope swings	Camping Sites		ire pit/ring	☐ Livestock Watering ☐ NPDES Discharge	RV / ATV Tracks Fishing Tackle

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Data Sheet B - Site Characterization

Page Two - WBID #<u>0744-003</u>:

☐ Riffle Width	(ft):		Lei	ngth (ft):	Av	vg. Depth (f	t):	Max. De	pth (ft):	
Run Width	(ft):		Lei	ngth (ft):	A	vg. Depth (f	t):	Max. De	pth (ft):	
⊠ Pool Width	(ft):	14	Lei	ngth (ft): 30	A	vg. Depth (f	t): 0.5	Max. Do	pth (ft): 1	.0
⊠ Flow Presei	t'?	⊠ Yes	☐ No		Es 1.0	,	/sec): less ti	han		
Downstream Vi	ew]	Physica	l Dime	ensions:						
Riffle Width				ngth (ft):	A.	vg. Depth (f	(t):	Max. De	epth (ft):	
⊠ Run Width	(ft):	10-30	Le	ngth (ft): 250	A	vg. Depth (1	ft): 0.3	Max. De	epth (ft): 0	9.5
Pool Width	(ft):		Le	ngth (ft):	A	vg. Depth (f	ft):	Max. De	epth (ft):	
	•			<u> </u>			/sec); same			• •
Flow Preser	E/ 	⊠ Yes	∐ No	1		oove				
hstrate*: (These					~ c . l		or attack	0000 14 140		<i>m</i> D I
<u> </u>			% Grave	- 	% Sand		% Silt	90% Mud/C	lav i	% Bedroo
10% Cobb uatic Vegetatio None			•		gal growth	at the asses	ssment site)		,	n Dudio.
10% Cobb. uatic Vegetatio None	n*:	(note amo	ount of v	regetation or al	gal growth	at the asses	ssment site)			70 200100
10% Cobb uatic Vegetatio Nonc	n*:	(note amo	ount of v	regetation or al				Otho		70 2000
10% Cobb. uatic Vegetatio None ter Characteri Odor:	n*:	(note amo	ount of v	egetation or al apply.)	☐ Cherr	nical	✓ None	Othe	r:	
10% Cobb. uatic Vegetatio None nter Characteri Odor: Color:	n*:	(note amo s*: (Mari] Sewage	ount of v	egetation or al apply.) Musky Green	☐ Chen	nical	⊠ None	Othe	r:	70 2000
10% Cobb. uatic Vegetatio None ter Characteri Odor:	n*:	(note amo s*: (Mar)] Sewage	ount of v	egetation or al apply.)	☐ Chen	nical sediments	✓ None		r: r:	
10% Cobb. uatic Vegetatio None ter Characteri Odor: Color: Bottom Deposit:	atta	s*: (Marl Sewage Clear Sludge Oil ach addi be used song of wat se analys	tional colely for er conditions but ma	apply.) Musky Green Solids Scum comments (i	Cherr Gray Fine: Foam ncluding recreational uently, this ditions that	sediments informati l use design information t need furth	None	Othe Othe Othe otheristo provided ded to directly in that effect anotherists	r: r: r: this form a more nfluence a	,



Photo ID 0744-003US: Upstream (Little Cedar Creek)



Photo ID 0744-003DS: Downstream (Little Cedar Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 0744-	-004		Site Location De	escription: ek at Road Crossing on Nor	th Line Section 17, T48N.
Site GPS Coordinates: 57	70770E; 4311311N			- Boone County	,
Date & Time: 05/28/05 -	2:10 p.m.		Facility Name: S	See Report Table 2	
Personnel: Tim J. Fandre	y /Alan J. Fandrey		Permit Number:	See Report Table 2	
Current Weather Condition	ons: Clear - 70s		Weather Conditi	ons for Past 7 days: Last ra	in with runoff on May 22
Photo Ids: Upstream: 07	44-004US Dow	nstream: 074	4-004DS Other	; –	
Uses Observed*:					
Swimming	Skin diving		JBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	Boa	iting	Wading	Rafting
Hunting	Trapping	Fish	ning	None of the above	Other:
Surrounding Condition tems of interest.)				T	T
City/county parks	☐ Playgrounds	MDC cor	nservation lands	Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	⊠ Fence	Steep slop	pes	Other:	
Evidence of Human Use	<u>.</u> *•				
Roads	Foot paths/prin	ts D	ock/platform	Livestock Watering	RV / ATV Tracks
Rope swings	Camping Sites	Fi	re pit/ring	NPDES Discharge	Fishing Tackle
Other:					
					·

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Data Sheet B - Site Characterization

Page Two - WBID #0744-004:

Upstream ☐ Riffle	Width (ft)	•	Length (ft):		lua Dt	(FA)		
Run	Width (ft)				lvg. Depth		Max. Depth	
□ Ruii Pool			Length (ft):		vg. Depth		Max. Depth	(ft):
ļ _	Width (ft)		Length (ft): 5		Avg. Depth		Max. Depth	(ft): 1.0
⊠ Flow	Present?	⊠ Yes	□ No		stimated (f	t³/sec): less	han	
Downstre	am View	Physica	l Dimensions:					
⊠ Riffle	Width (ft)		Length (ft): 2	.0 /	vg. Depth	(ft): 0.1	Max. Depth	(ft): 0.2
Run	Width (ft)		Length (ft):		vg. Depth	(ft);	Max. Depth	
⊠ Pool	Width (ft):	10-30	Length (ft):		vg. Depth	-	Max. Depth	
☑ Flow	Present?	⊠ Yes	□No			t³/sec): less t		(11). 0.6
					.0			
hetrofa*.	(These well	الاستام مما	add up to 100%.)					
ostrate . %	Cobble		% Gravel	% Sand	<u> </u>	(7, 6:2)	10000 10 1001	
			N Graver	70 Sand	L,	% Silt	100% Mud/Clay	% Bedroc
None			ount of vegetation or	t algal growtl	at the asse	ssment site)		
None	acteristic	5 *: (Mark	all that apply.)	-				
None Ater Chara Odor;	acteristic	5*: (Mark Sewage	all that apply.)	☐ Chen	nical	None ≥	Other:	
None ater Chara Odor; Color:	acteristic:	5*: (Mark Sewage Clear	all that apply.) Musky Green	☐ Chen	nical	⊠ None □ Milky	Other:	
Ater Chara Odor; Color: Bottom Dep	acteristica	5*: (Mark Sewage	all that apply.) Musky Green Solids	☐ Chen	nical	NoneMilkyNone	Other:	ebris, beaver dam
None Ater Chara Odor; Color:	acteristica	s*: (Mark Sewage Clear Sludge	all that apply.) Musky Green	☐ Chen	nical	⊠ None □ Milky	Other:	ebris, beaver dam
Ater Chara Odor; Color: Bottom Der Surface Der	posit:	s*: (Mark Sewage Clear Sludge Oil och addit	all that apply.) Musky Green Solids Scum	Chen Gray Fine Foan (including	nical sediments	None Milky None None None on from in	Other: Other: de	form.
Ater Chara Odor; Color: Bottom Der Surface Der mments: I	posit: Please atta	s*: (Mark Sewage Clear Sludge Oil ach addit	all that apply.) Musky Green Solids Scum ional comments	Chen Gray Fine Foan (including	nical sediments informati	None Milky None None on from in	Other: Other: de Other: Other: terviews) to this f	form.
None Ater Chara Odor: Color: Bottom Der Surface Der mments: I	posit: Please atta on is not to linderstandingereation using the linderstanding the linderstand the linderstanding the linderstand the li	s*: (Mark Sewage Clear Sludge Oil oc used so og of wate se analysis	all that apply.) Musky Green Solids Scum ional comments lely for removal of a conditions. Consess but may point to continue to the best of the continue to the best of the continue to the best of t	Chen Gray Fine Foan (including a recreational equently, this	information in need further	None Milky None None on from in ation but rath is not intender analysis on	Other: Other: de Other: Other: terviews) to this f	form. ore ncc a sse.
None Ater Chara Odor; Color: Bottom Der Surface Der mments: I	posit: Please atta on is not to linderstandingereation using the linderstanding the linderstand the linderstanding the linderstand the li	s*: (Mark Sewage Clear Sludge Oil oc used so og of wate se analysis	all that apply.) Musky Green Solids Scum ional comments lely for removal of a conditions. Consess but may point to continue to the best of the continue to the best of the continue to the best of t	Chen Gray Fine Foan (including a recreational equently, this	information in need further	None Milky None None on from in ation but rath is not intender analysis on	Other: Other: de Control of the cont	form. ore ncc a sse.



Photo ID 00744-004US: Upstream (Little Cedar Creek)



Photo ID 0744-004DS: Downstream (Little Cedar Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 0744	-005		Site Location Des		and Line Continu 17
Site GPS Coordinates: 57	71399E; 4309479N			k at abandoned bridge on S D 205 – Boone County	outh Line Section 17,
Date & Time: 05/28/05 -	2:30 p.m.		Facility Name: S	ee Report Table 2	
Personnel: Tim J. Fandre	y /Alan J. Fandrey		Permit Number:	See Report Table 2	
Current Weather Condition	ons: Clear - 70s		Weather Condition	ons for Past 7 days: Last ra	in with runoff on May 22
Photo Ids: Upstream: 07	744-005US Dow	nstream: 074	4-005DS Other:	: -	
Uses Observed*:					
Swimming	Skin diving		UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	Boa	nting	Wading	Rafting
Hunting	Trapping	Fish	ning	None of the above	Other:
Surrounding Condition	s*: (Mark all that p	promote or imp	pede recreational us	ses. Attach photos of eviden	nce or unusual
items of interest.)					
City/county parks	Playgrounds		nservation lands	Urban areas	Campgrounds
Boating accesses	State parks	National		Nature trails	Stairs/walkway
No trespass sign	Fence	Steep slop	pes	Other: Agriculture	
Evidence of Human Use	2*:				
Roads	Foot paths/prin		ock/platform	Livestock Watering	RV / ATV Tracks
Rope swings	Camping Sites	☐ Fi	ire pit/ring	☐ NPDES Discharge	Fishing Tackle
Other: Abandoned br					I ishing rackie

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Data Sheet B - Site Characterization

Page Two – WBID #<u>0744-005</u>:

Upstream View Physical Dimensions: Riffle Width (ft): Length (ft): Run Width (ft): Length (ft):		
	Avg. Depth (ft);	Max. Depth (ft):
	Avg. Depth (ft):	Max. Depth (ft):
Pool Width (ft): 40-50 Length (ft): 200	Avg. Depth (ft): 2.0	Max. Depth (ft): 3.0
☐ Flow Present? ☐ Yes ☐ No	Estimated (ft³/sec): le 1.0	• , ,
Downstream View Physical Dimensions:		
Riffle Width (ft): Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
Run Width (ft): Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Pool Width (ft): 40-50 Length (ft): 200	Avg. Depth (ft): 2.0	Max. Depth (ft): 3.0
	Estimated (ft³/sec): le	
☐ Flow Present? ☐ Yes ☐ No	1.0	
ubstrate*: (These values should add up to 100%.) % Cobble % Gravel % S.		
Aquatic Vegetation*: (note amount of vegetation or algal grands) None	over at the basesanted of	
Vater Characteristics*: (Mark all that apply.)		
valet Characteristics . Oylark an mar abbiv.		
	Chemical 🔀 Non	e Other:
Odor: Sewage Musky	Chemical ⊠ Non Gray □ Milk	
Odor: Sewage Musky Color: Color: Clear Green Color:	_	y Other: brown
Odor: Sewage Musky Odor: Color: Clear Green Odor: Bottom Deposit: Sludge Solids Odor:	Gray Milk	Other: brown Compared to the
Odor: Sewage Musky Color: Clear Green Bottom Deposit: Sludge Solids	Gray Milk Fine sediments Non Foam Non ding information from tional use designation but to this information is not in	Other: brown Compared to Differ the brown Compared the brown Co
Odor: Sewage Musky Color: Clear Green Bottom Deposit: Sludge Solids Surface Deposit: Oil Scum Comments: Please attach additional comments (included and information is not to be used solely for removal of a recreat comprehensive understanding of water conditions. Consequently lecision on the recreation use analysis but may point to condition, the undersigned, hereby affirm to the best of my latasheet is true and accurate.	Gray Milk Fine sediments Non Foam Non ding information from tional use designation but the this information is not in the that need further analys knowledge, that all i	Other: brown C Other: debris E Other: Other: In interviews) to this form, rather is to provide a more intended to directly influence a is or that effect another use.
Odor: Sewage Musky Color: Clear Green Bottom Deposit: Siudge Solids Surface Deposit: Oil Scum Comments: Please attach additional comments (included and information is not to be used solely for removal of a recreat comprehensive understanding of water conditions. Consequently ecision on the recreation use analysis but may point to condition, the undersigned, hereby affirm to the best of my	Gray Milk Fine sediments Non Foam Non ding information from tional use designation but the this information is not in the that need further analys knowledge, that all i	Other: brown C Other: debris E Other: Other: In interviews) to this form, rather is to provide a more intended to directly influence a is or that effect another use.



Photo ID 0744-005US: Upstream (Little Cedar Creek)



Photo ID 0744-005DS: Downstream (Little Cedar Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 0744	-006		Site Location Des		Navida I/ Cardian 20	
Site GPS Coordinates: 5	71655E; 4307744N		Little Cedar Creek at Highway WW bridge in North ½ Section 29, T48N, R11W; BID 206 – Boone County			
Date & Time: 06/26/05 -	– 2:30 p.m.		Facility Name: See Report Table 2			
Personnel: Alan J. Fandı	rey		Permit Number: See Report Table 2			
Current Weather Condition	ons: Clear - 90s		Weather Conditions for Past 7 days: Last rain with runoff on June 13			
Photo Ids: Upstream: 07	744-006US Dow	nstream: 074	4-006DS Other:	: –		
Uses Observed*:	·					
Swimming	Skin diving		UBA diving	Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	Boa	nting	Wading	Rafting	
Hunting	Trapping	Fish	ning	None of the above	Other:	
Surrounding Condition	18*: (Mark all that _I	promote or imp	oede recreational us	ses. Attach photos of evider	nce or unusual	
tems of interest.)						
City/county parks	Playarounde					
☐ Boating accesses	Playgrounds		nservation lands	Urban areas	Campgrounds	
<u> </u>	State parks	National	forests	☐ Nature trails	Campgrounds Stairs/walkway	
☐ No trespass sign			forests			
<u> </u>	State parks Fence	National	forests	☐ Nature trails		
No trespass sign Evidence of Human Use ⊠ Roads	State parks Fence Foot paths/prin	National Steep slop	forests pes ock/platform	☐ Nature trails ☐ Other: Agriculture ☐ Livestock Watering	Stairs/walkway RV / ATV Tracks	
□ No trespass sign Evidence of Human Use	State parks Fence	National Steep slop	forests	☐ Nature trails ☐ Other: Agriculture	Stairs/walkway	

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #<u>0744-006</u>:

Riffle	Width (ft)	:	Length (ft):		Avg. Depth (f	t):	Max. Depth (ft):	
Run	Width (ft)	:	Length (ft):		Avg. Depth (f	t):	Max. Depth (ft):	
⊠ Pool	Width (ft)	: 5-25	Length (ft): 3	0	 Avg. Depth (f	t): 1.5	Max. Depth (ft): 2	.7
Flow	Present?	⊠ Yes	☐ No		Estimated (ft ³	/sec): < 1	• • • • • • • • • • • • • • • • • • • •	
<u></u>							.,	•
Downstre Riffle			l Dimensions:			25		<u> </u>
	Width (ft)		Length (ft): 8		Avg. Depth (1	·	Max. Depth (ft): 0.	1
Run	Width (ft)		Length (ft):		Avg. Depth (1	t):	Max. Depth (ft):	
⊠ Pool	Width (fl)	: 10-20	Length (ft): 3		Avg. Depth (f	<u>·</u>	Max, Depth (ft): 1.	3
⊠ Flow	Present?	⊠ Yes	□ No		Estimated (fl ³ above	/sec): same as		
h.44-4.	(TT)					***	· -	
	(These val		add up to 100%.) % Gravel	10% Sand	<u> </u>	% Silt	60% Mud/Clay	% Bedroc
uatic Veg None	getation*:	(note amo	ount of vegetation o	r algal grow	th at the asses	sment site)		
None			ount of vegetation of the country of	r algal grow	th at the asses	sment site)		
None ater Char Odor:			k all that apply.)		th at the asses	sment site)	Other:	
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Ater Char Odor: Color: Bottom De	acteristic	s*: (Mar) Sewage Clear Sludge	k all that apply.) Musky Green Solids	☐ Che ☐ Gra ☐ Fin	emical y e sediments	✓ None✓ Milky✓ None	Other: brown	
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Photo ID 0744-006DS: Downstream (Little Cedar Creek)